

## Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

## Johnson County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7: Wiota-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
11B: Colo-----	50	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60
Ely-----	30	Very limited Frost action  Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
41: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.09
41B: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.09
41C: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.09
41D: Sparta-----	100	Very limited Slope	0.96	Very limited Slope cutbanks cave	0.96 0.90	Very limited Slope Droughty	0.96 0.09
43: Bremer-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Zook-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.60 0.01	Very limited Depth to saturated zone Flooding	1.00 0.60
63B: Chelsea-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.41
63C: Chelsea-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.41
63E: Chelsea-----	95	Very limited Slope	0.96	Very limited Slope cutbanks cave	0.96 0.90	Very limited Slope Droughty	0.96 0.41
65D2: Lindley-----	95	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
65E2: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65F: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65F2: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
75: Givin-----	95	Very limited Frost action  Low strength Shrink-swell	1.00  1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
76B: Ladoga-----	100	Very limited Low strength  Shrink-swell Frost action	1.00  0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
76C2: Ladoga-----	100	Very limited Low strength  Shrink-swell Frost action	1.00  0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
76D2: Ladoga-----	100	Very limited Low strength Slope  Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
80B: Clinton-----	100	Very limited Low strength  Shrink-swell Frost action	1.00  0.50 0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80C: Clinton-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
80C2: Clinton-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
80D: Clinton-----	100	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63	Depth to saturated zone	0.15		
		Shrink-swell	0.50				
		Frost action	0.50				
80D2: Clinton-----	100	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63	Depth to saturated zone	0.15		
		Shrink-swell	0.50				
		Frost action	0.50				
80D3: Clinton-----	100	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63	Depth to saturated zone	0.15		
		Shrink-swell	0.50				
		Frost action	0.50				
83B: Kenyon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
83C2: Kenyon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
88: Nevin-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
110B: Lamont-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
110C: Lamont-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
110E: Lamont-----	100	Very limited Slope	0.96	Very limited Slope	0.96	Very limited Slope	0.96
		Frost action	0.50	cutbanks cave	0.90		
118: Garwin-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				
119: Muscatine-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
119B: Muscatine-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120B: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120C: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120C2: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120D2: Tama-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
122: Sperry-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 0.01	Very limited Depth to saturated zone	1.00
133: Colo-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133+: Colo-----	95	Very limited Depth to saturated zone Frost action  Flooding Low strength Shrink-swell	1.00  1.00  1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00  0.80	Very limited Flooding  Depth to saturated zone	1.00   1.00
135: Coland-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00  1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00  0.60	Very limited Depth to saturated zone Flooding	1.00  0.60
140: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
141: Watseka-----	95	Somewhat limited Frost action  Depth to saturated zone	0.50  0.19	Very limited Depth to saturated zone cutbanks cave	1.00  0.90	Somewhat limited Depth to saturated zone Droughty	0.19  0.04
152: Marshan-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00  1.00 1.00 0.50	Very limited Depth to saturated zone cutbanks cave	1.00  0.90	Very limited Depth to saturated zone	1.00
160: Walford-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00  1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
161: Walford-----	60	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Atterberry-----	30	Very limited Frost action Low strength Depth to saturated zone	1.00 1.00 0.19	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
162B: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162C: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162C2: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162D2: Downs-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163B: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163C: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163C2: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163D: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163D2: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163D3: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163E: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
163E2: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163E3: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163F: Fayette-----	95	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163F2: Fayette-----	95	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163G: Fayette-----	95	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
165: Stronghurst-----	95	Very limited Frost action  Low strength Depth to saturated zone	 1.00  1.00 0.19	Very limited Depth to saturated zone	 1.00	Somewhat limited Depth to saturated zone	 0.19
171B: Bassett-----	100	Somewhat limited Frost action  Low strength	 0.50  0.22	Somewhat limited Depth to saturated zone	 0.16	Not limited	
171C2: Bassett-----	95	Somewhat limited Frost action  Low strength	 0.50  0.22	Somewhat limited Depth to saturated zone	 0.16	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
171D2: Basset-----	100	Somewhat limited Slope Frost action  Low strength	 0.63 0.50  0.22	Somewhat limited Slope Depth to saturated zone	 0.63 0.16	Somewhat limited Slope	 0.63
171D3: Basset-----	100	Somewhat limited Slope Frost action  Low strength	 0.63 0.50  0.22	Somewhat limited Slope Depth to saturated zone	 0.63 0.16	Somewhat limited Slope	 0.63
173: Hoopeston-----	95	Very limited Frost action  Depth to saturated zone	 1.00  0.19	Very limited Depth to saturated zone cutbanks cave	 1.00 0.90	Somewhat limited Depth to saturated zone	 0.19
174B: Bolan-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	 0.90	Not limited	
175: Dickinson-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	 0.90	Not limited	
175B: Dickinson-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	 0.90	Not limited	
175C: Dickinson-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	 0.90	Not limited	
178: Waukee-----	100	Not limited		Very limited cutbanks cave	 0.90	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179D2: Gara-----	95	Very limited Low strength Slope Shrink-swell Frost action	 1.00 0.63 0.50 0.50	Somewhat limited Slope Depth to saturated zone	 0.63 0.16	Somewhat limited Slope	 0.63
179E2: Gara-----	95	Very limited Slope Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited Slope Depth to saturated zone	 1.00 0.16	Very limited Slope	 1.00
184: Klinger-----	95	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Very limited Depth to saturated zone	 0.95	Not limited	
220: Nodaway-----	92	Very limited Frost action Flooding Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone Flooding	 0.61 0.60	Somewhat limited Flooding	 0.60
226: Lawler-----	95	Very limited Frost action	 1.00	Very limited Depth to saturated zone cutbanks cave	 0.95 0.90	Not limited	
279: Taintor-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	 1.00	Very limited Depth to saturated zone	 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
280: Mahaska-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				
281B: Otley-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell Frost action	0.50 0.50				
281C2: Otley-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell Frost action	0.50 0.50				
281D2: Otley-----	100	Very limited Low strength Slope	1.00 0.63	Somewhat limited Slope Depth to saturated zone	0.63 0.15	Somewhat limited Slope	0.63
		Shrink-swell Frost action	0.50 0.50				
284: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
285C: Burkhardt-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.21
291: Atterberry-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength Depth to saturated zone	1.00 0.19				

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NONAGRICULTURAL INTERPRETATIONS

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
291B: Atterberry-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength Depth to saturated zone	1.00 0.19				
293C: Chelsea-----	45	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.41
Lamont-----	35	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
Fayette-----	20	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
293C2: Chelsea-----	45	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.41
Lamont-----	35	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
Fayette-----	20	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
293D: Chelsea-----	45	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.41
Lamont-----	35	Somewhat limited Slope Frost action	0.63 0.50	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope	0.63
Fayette-----	20	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293D2: Chelsea-----	45	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.41
Lamont-----	35	Somewhat limited Slope Frost action	0.63 0.50	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope	0.63
Fayette-----	20	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
293E: Chelsea-----	40	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.41
Lamont-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
Fayette-----	20	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
293E2: Chelsea-----	40	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.41
Lamont-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
Fayette-----	20	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293F: Chelsea-----	35	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.41
Lamont-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
Fayette-----	20	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
293G: Chelsea-----	35	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.41
Lamont-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
Fayette-----	20	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
320: Arenzville-----	95	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.35	Very limited Flooding	1.00
350B: Waukegan-----	100	Very limited Low strength	1.00	Very limited cutbanks cave	0.90	Not limited	
352B: Whittier-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited cutbanks cave	0.90	Not limited	



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Johnson County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
352C2: Whittier-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited cutbanks cave	0.90	Not limited	
377B: Dinsdale-----	100	Very limited Frost action  Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
377C2: Dinsdale-----	100	Very limited Frost action  Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
382: Maxfield-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
420B: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
422: Amana-----	95	Very limited Frost action  Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	0.95 0.60	Somewhat limited Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
428B: Ely-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				
430: Ackmore-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	0.19
		Low strength Shrink-swell Depth to saturated zone	1.00 0.50 0.19				
442B: Tama-----	50	Very limited Frost action	1.00	Not limited		Not limited	
		Low strength Shrink-swell	1.00 0.50				
Dickinson-----	30	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
442C2: Tama-----	50	Very limited Frost action	1.00	Not limited		Not limited	
		Low strength Shrink-swell	1.00 0.50				
Dickinson-----	30	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
442D2: Tama-----	50	Very limited Frost action	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Low strength Slope Shrink-swell	1.00 0.63 0.50				
Dickinson-----	30	Somewhat limited Slope	0.63	Very limited cutbanks cave	0.90	Somewhat limited Slope	0.63
		Frost action	0.50	Slope	0.63		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453: Tuskeego-----	100	Very limited Depth to saturated zone Low strength Shrink-swell Frost action	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
484: Lawson-----	95	Very limited Frost action  Flooding  Low strength Depth to saturated zone	1.00 1.00 1.00 0.19	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Flooding  Depth to saturated zone	0.60 0.19
485: Spillville-----	95	Very limited Flooding  Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Depth to saturated zone Flooding	0.61 0.60	Somewhat limited Flooding	0.60
520: Coppock-----	95	Very limited Frost action  Flooding  Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Flooding  Depth to saturated zone	0.60 0.19
539: Perks-----	95	Very limited Flooding	1.00	Very limited cutbanks cave Flooding	0.90 0.60	Very limited Droughty Flooding	1.00 0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
621: Houghton-----	100	Very limited Depth to saturated zone Subsidence Frost action	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter	1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter	1.00 1.00 1.00
687: Watkins-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
687B: Watkins-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
688: Koszta-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone	1.00	Not limited	
727: Udolpho-----	100	Very limited Depth to saturated zone Frost action Low strength	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone cutbanks cave	1.00 0.90	Very limited Depth to saturated zone	1.00
729B: Nodaway-----	50	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Somewhat limited Depth to saturated zone Flooding	0.61 0.60	Somewhat limited Flooding	0.60

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Arenzville-----	40	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.35	Very limited Flooding	1.00
760: Ansgar-----	95	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
761: Franklin-----	90	Very limited Frost action Low strength	1.00 0.22	Very limited Depth to saturated zone	0.95	Not limited	
771B: Waubeek-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
771C2: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
778: Sattre-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
778B: Sattre-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
792D2: Armstrong-----	100	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.63
		Low strength	1.00	Slope	0.63	Depth to saturated zone	0.19
		Slope	0.63				
		Shrink-swell	0.50				
		Depth to saturated zone	0.19				
793: Bertrand-----	100	Very limited Frost action	1.00	Very limited cutbanks cave	0.90	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
826: Rowley-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	1.00	cutbanks cave	0.90		
		Depth to saturated zone	0.19				
876B: Ladoga-----	100	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
920: Tama-----	100	Very limited Frost action	1.00	Very limited cutbanks cave	0.90	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
920B: Tama-----	100	Very limited Frost action	1.00	Very limited cutbanks cave	0.90	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
962: Elvira-----	95	Very limited Depth to saturated zone Frost action  Flooding Low strength Shrink-swell	1.00  1.00  1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00  0.80	Very limited Flooding  Depth to saturated zone	1.00   1.00
974B: Bolan-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	 0.90	Not limited	
976: Raddle-----	100	Very limited Frost action Low strength	1.00 0.78	Not limited		Not limited	
993D2: Gara-----	60	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
Armstrong-----	40	Very limited Frost action  Low strength  Slope Shrink-swell Depth to saturated zone	1.00  1.00  0.63 0.50 0.19	Very limited Depth to saturated zone Slope	1.00  0.63	Somewhat limited Slope Depth to saturated zone	0.63  0.19
993E2: Gara-----	60	Very limited Slope Low strength  Shrink-swell Frost action	1.00 1.00  0.50 0.50	Very limited Slope Depth to saturated zone	1.00 0.16	Very limited Slope	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Armstrong-----	40	Very limited Frost action Slope  Low strength Shrink-swell Depth to saturated zone	 1.00 1.00  1.00 0.50 0.19	Very limited Slope Depth to saturated zone	 1.00 1.00	Very limited Slope Depth to saturated zone	 1.00 0.19
1119: Muscatine-----	95	Very limited Frost action  Low strength Shrink-swell	 1.00  1.00 0.50	Very limited Depth to saturated zone	 0.95	Not limited	
1160: Walford-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	 1.00  1.00 1.00 1.00	Very limited Depth to saturated zone	 1.00	Very limited Depth to saturated zone	 1.00
1220: Nodaway-----	92	Very limited Frost action Flooding  Low strength Shrink-swell	 1.00 1.00  1.00 0.50	Somewhat limited Flooding Depth to saturated zone	 0.80 0.61	Very limited Flooding	 1.00
1280: Mahaska-----	95	Very limited Frost action  Low strength Shrink-swell	 1.00  1.00 0.50	Very limited Depth to saturated zone	 0.95	Not limited	
1291: Atterberry-----	95	Very limited Frost action  Low strength Depth to saturated zone	 1.00  1.00 0.19	Very limited Depth to saturated zone	 1.00	Somewhat limited Depth to saturated zone	 0.19



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1315: Perks-----	40	Very limited Flooding	1.00	Very limited cutbanks cave Flooding	0.90 0.80	Very limited Flooding Droughty	1.00 1.00
Spillville-----	30	Very limited Flooding Low strength  Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
1316: Fluvaquents-----	100	Not rated		Not rated		Not rated	
1484: Lawson-----	92	Very limited Frost action  Flooding  Low strength Depth to saturated zone	1.00 1.00 1.00 0.19	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding  Depth to saturated zone	1.00 0.19
1485: Spillville-----	92	Very limited Flooding Low strength  Shrink-swell Frost action	1.00 1.00 0.50 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
2422: Amana-----	30	Very limited Frost action  Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	0.95 0.80	Very limited Flooding	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lawson-----	30	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	0.19
		Low strength Depth to saturated zone	1.00 0.19				
Perks-----	30	Very limited Flooding	1.00	Very limited cutbanks cave Flooding	0.90 0.60	Very limited Droughty Flooding	1.00 0.60
5010: Pits-----	100	Not rated		Not rated		Not rated	
5030: Pits-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
INT: Intermittent Water--	100	Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	